

Cue Cards and Procedural Decals Book

**Mission Operations Directorate
Systems Division**

**Generic, Rev C
September 21, 1994**

NOTE
For STS-66 and subsequent flights

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



CUE CARDS & PROCEDURAL DECALS

GENERIC, Rev C (Sept 21, 1994)

PCN-3 (Feb 9, 2001) Sheet 1 of 1

List of Implemented Change Requests (482s):

CUE-502

Incorporate the following:

- 1. Replace v thru viii
- 2. Replace Section 2 (2 pages)

NOTE
For STS-100 and subsequent flights

Prepared by: _____
Book Manager

Approved by: _____
Manager, Shuttle Procedures Management (USA)

Accepted by: _____
FDF Subsystem Manager (NASA)

Encl: 6 pages

Verify this is the correct version for the pending operation (training, simulation or flight).
Electronic copies of FDF books are available. URL: <http://fltproc.jsc.nasa.gov/dfd>

File this PCN immediately behind the front cover as a permanent record

MISSION OPERATIONS DIRECTORATE

CUE CARDS AND PROCEDURAL DECALS BOOK

GENERIC, REVISION C
September 21, 1994

PREPARED BY:

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Book Manager

APPROVED BY:

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EVA, Robotics, Mech, & Crew
Systems Branch

This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes must be submitted on JSC Form 482 to DO4/FDF Manager.

Additional distribution of this book for official use must be requested in writing to DO4/FDF Manager. The request must include justification and requester's name, organization, position, and phone number. Contractor requests are made through the NASA or DOD organization supported. Deletions, reduction in quantity, or change of address may be submitted to DO4/FDF distribution manager, (713) 244-1182.

Incorporates the following:	
482#:	CUE-486A CUE-494 MULTI-1061

AREAS OF TECHNICAL RESPONSIBILITY

Book Manager	DF43/K. Porter	483-5887
GNC	DF62/D. Miller	483-0714
ECLSS	DF72/Q. Carelock	483-0765
EGRESS	DF43/K. Porter	483-5887
EPS	DF73/R. Armstrong	483-0650
INCO	DF21/A. Morrison	483-0791
MECH	DF43/R. Doremus	483-0680
PROP	DF63/T. Lazo	483-0877
SPOC	DM41/R. Hofacker	483-8004

NOTES

1. Abbreviations listed below are incorporated into cue card edition data to indicate the shuttle flight phase during which a cue card is used.

<u>Phase</u>	<u>Abbreviation</u>
Ascent	A
Orbit Ops	O
Deorbit Burn	D
Entry	E

2. Location maps give the titles of only those card procedures that are mounted initially. For procedures appearing on a reverse side, refer to the table of contents.

Cards not shown on the location maps include those that are handheld or stowed for launch.

3. Selected cue cards have been identified as Mission–Dependent Generic cards. The flight effectivity of cards published in the Generic book will be identified in the Flight Data File Manifest (JSC–19542).
4. The Cue Card and Procedural Decal Locator lists card and decal titles and appropriate book titles for all cue cards and decals published in other FDF documents. The Locator list will show cue card and decal control documents for each flight, and will be provided in the Flight Data File Errata package for each flight.
5. With few exceptions, all cue cards published in other FDF documents are printed with “FAB USE ONLY” at the bottom of the page to indicate that the page is not actually flown in the flight document. Those few exceptions are mandated by flight–specific requirements. Ground controller flight copies of these documents will include these pages for reference. The Cue Card and Procedural Decal Locator identifies the cue cards to be fabricated and flown.
6. The decals published in this and other FDF documents are provided for ground reference only to document the configuration of decals that are actually flown. The decals are controlled by flight hardware drawings which cause the decals to be fabricated and installed on flight hardware. The Crew Procedures Control Board (CPCB) controls the procedural content of all decals.

7. Book Manager/Editor Notes

- a. All cue cards published in the Ascent Checklist, Entry Checklist, and Ascent/Entry Systems Procedures have critical size and Velcro location constraints. Any changes that may affect the card size, shape, or Velcro requirements must be coordinated with the Cue Cards and Procedural Decals Book Manager prior to publication. This requirement also applies to all other cue cards or overlays that must be placed in specific locations for use.
- b. The majority of the cue cards and overlays that are published in other FDF documents do not have critical size, shape, or Velcro requirements. The fabrication and publication requirements that apply to these cue cards and overlays are as follows:
 - 1) All cue cards and overlays must be coordinated with the Cue Cards and Procedural Decals Book Manager.
 - 2) Maximum cue card size is 8–1/2” x 10–1/2” (stowage/fabrication constraint).
 - 3) CCTV overlays must be 6” x 8” for B&W monitors (CCTV monitor size) and 6.5” x 8.5” for color monitors.
 - 4) All cue cards must have Velcro on the back if single–sided and on the front and back if dual–sided.
 - 5) All cue cards and overlays must have crop marks or outlines to define the size and shape of the card or overlay for fabrication (front and back of cue cards must match).
 - 6) All cue cards and overlays must have a card code and a title located inside the crop marks or outline for identification after fabrication.
 - 7) Specific fabrication requirements or notes must be placed outside the crop marks or outline.
 - 8) Cue cards or overlays that are larger than the page format of the controlling document must be reduced as required for bond and ground controller flight qual publications with the note “(reduced copy)” placed outside the crop marks or outline.
 - 9) When documents are sent to the print shop for printing, specific instructions must be included to print additional flight copies of full–sized cue cards and overlays on individual sheets with blank backs. These copies will be used to fabricate flight, backup, and training cue cards and overlays.

8. Software

06/19/92

Onboard Software

DOS 3.2.1

CUE CARDS AND PROCEDURAL DECALS BOOK *

LIST OF EFFECTIVE PAGES

GENERIC	01/04/88	PCN-2	05/31/96
REV C	09/21/94	PCN-3	02/09/01
PCN-1	01/09/95		

Sign Off	ALL/GEN C	3-10	ALL/GEN C
ii	ALL/GEN C	3-11	ALL/GEN C
iii	ALL/GEN C	3-12	ALL/GEN C
iv	ALL/GEN C	3-13	ALL/GEN C
v	ALL/GEN C,3	3-14	ALL/GEN C
vi	ALL/GEN C	3-15	ALL/GEN C
vii	ALL/GEN C,3	3-16	ALL/GEN C,2
viii	ALL/GEN C,3	4-1	ALL/GEN C
1-1	ALL/GEN C,	4-2	ALL/GEN C
1-2	ALL/GEN C	4-3	ALL/GEN C
1-3	ALL/GEN C,1	4-4	ALL/GEN C
1-4	ALL/GEN C,1	4-5	ALL/GEN C,2
1-5	ALL/GEN C	4-6	ALL/GEN C,2
1-6	ALL/GEN C	4-7	ALL/GEN C
1-7	ALL/GEN C	4-8	ALL/GEN C
1-8	ALL/GEN C,1	5-1	ALL/GEN C
2-1	ALL/GEN C,3	5-2	ALL/GEN C
2-2	ALL/GEN C	5-3	ALL/GEN C
2-3	deleted	5-4	ALL/GEN C
2-4	deleted	5-5	ALL/GEN C
2-5	deleted	5-6	ALL/GEN C
2-6	deleted	5-7	ALL/GEN C
2-7	deleted	5-8	ALL/GEN C
2-8	deleted	5-9	ALL/GEN C
2-9	deleted	5-10	ALL/GEN C
2-10	deleted		
2-11	deleted		
2-12	deleted		
2-13	deleted		
2-14	deleted		
2-15	deleted		
2-16	deleted		
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3-3	ALL/GEN C		
3-4	ALL/GEN C		
3-5	⊗ ALL/GEN C		
3-6	ALL/GEN C		
3-7	ALL/GEN C		
3-8	ALL/GEN C		
3-9	ALL/GEN C		

* - No flight book published

⊗ - Highlights required

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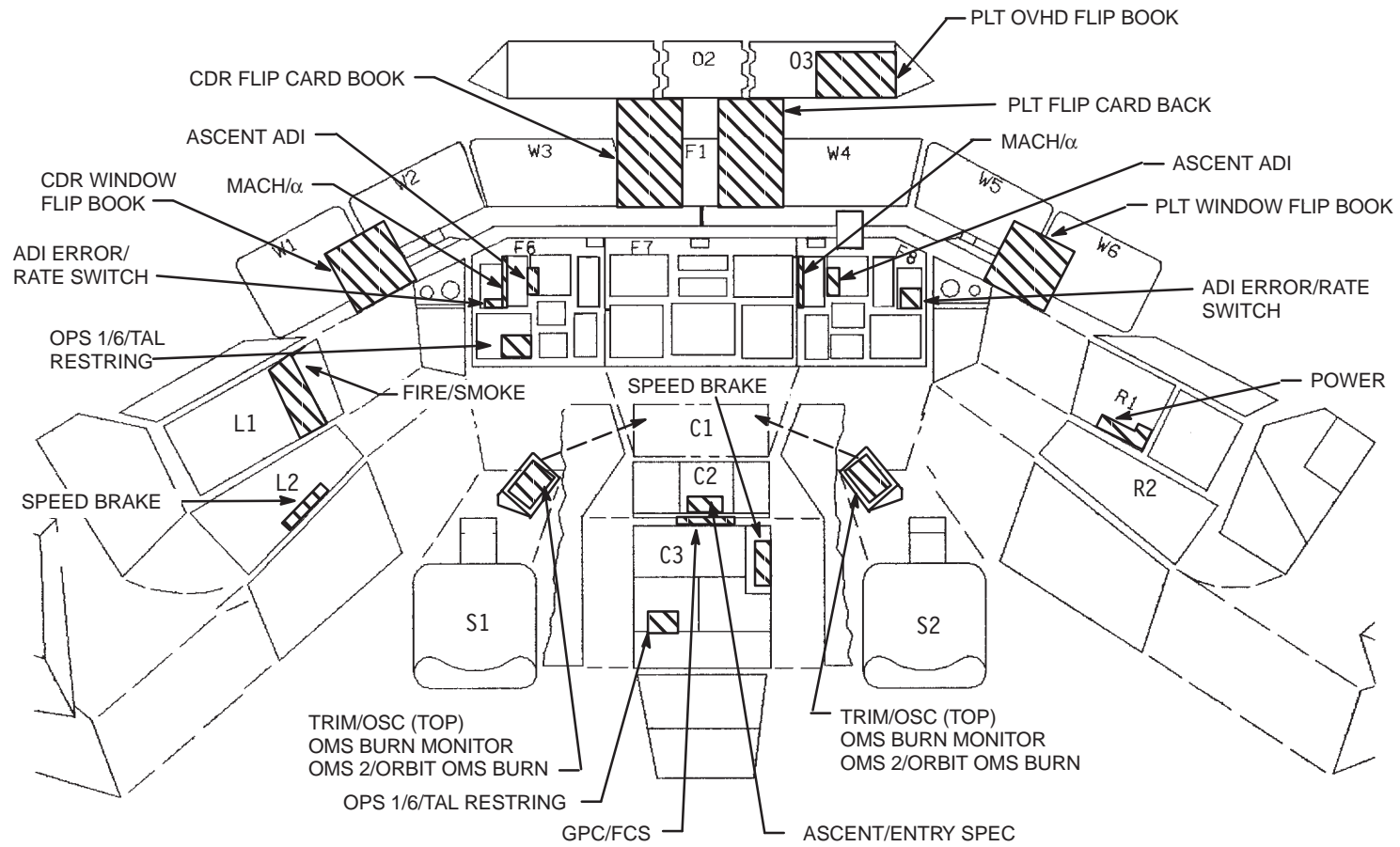
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CUE CARD LOCATION MAPS

MULTIPHASE	1-3
ASCENT	1-4
OMS 2 BURN	1-5
ORBIT	1-6
DEORBIT BURN	1-7
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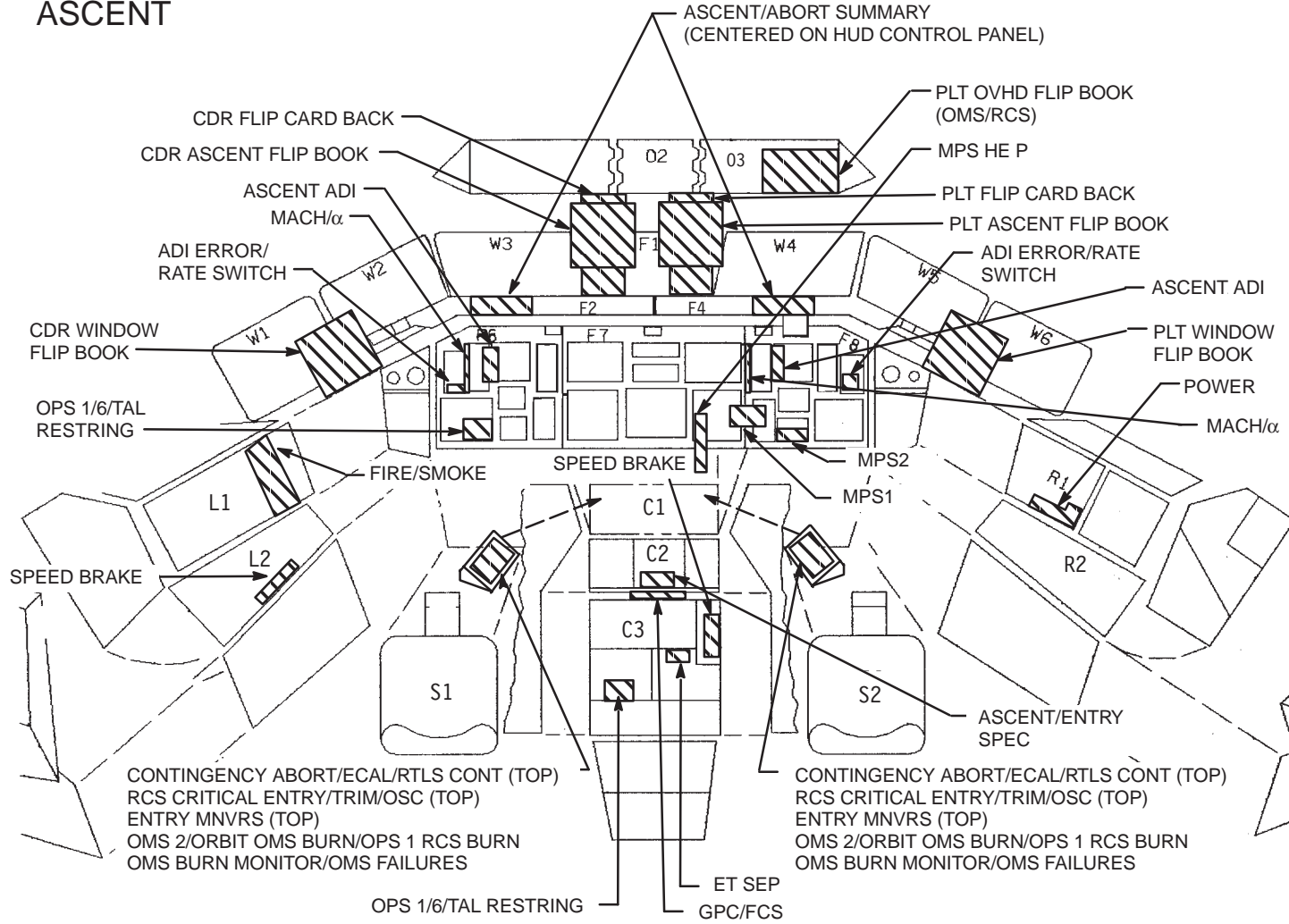
MULTIPHASE



NOT SHOWN: ESCAPE PNL EGRESS (BACK OF CDR HEADREST)
 EMERGENCY EGRESS (BACK OF PLT,
 CDR SEATS AND ON MIDDECK FWD LOCKERS)

qcmapp1

ASCENT



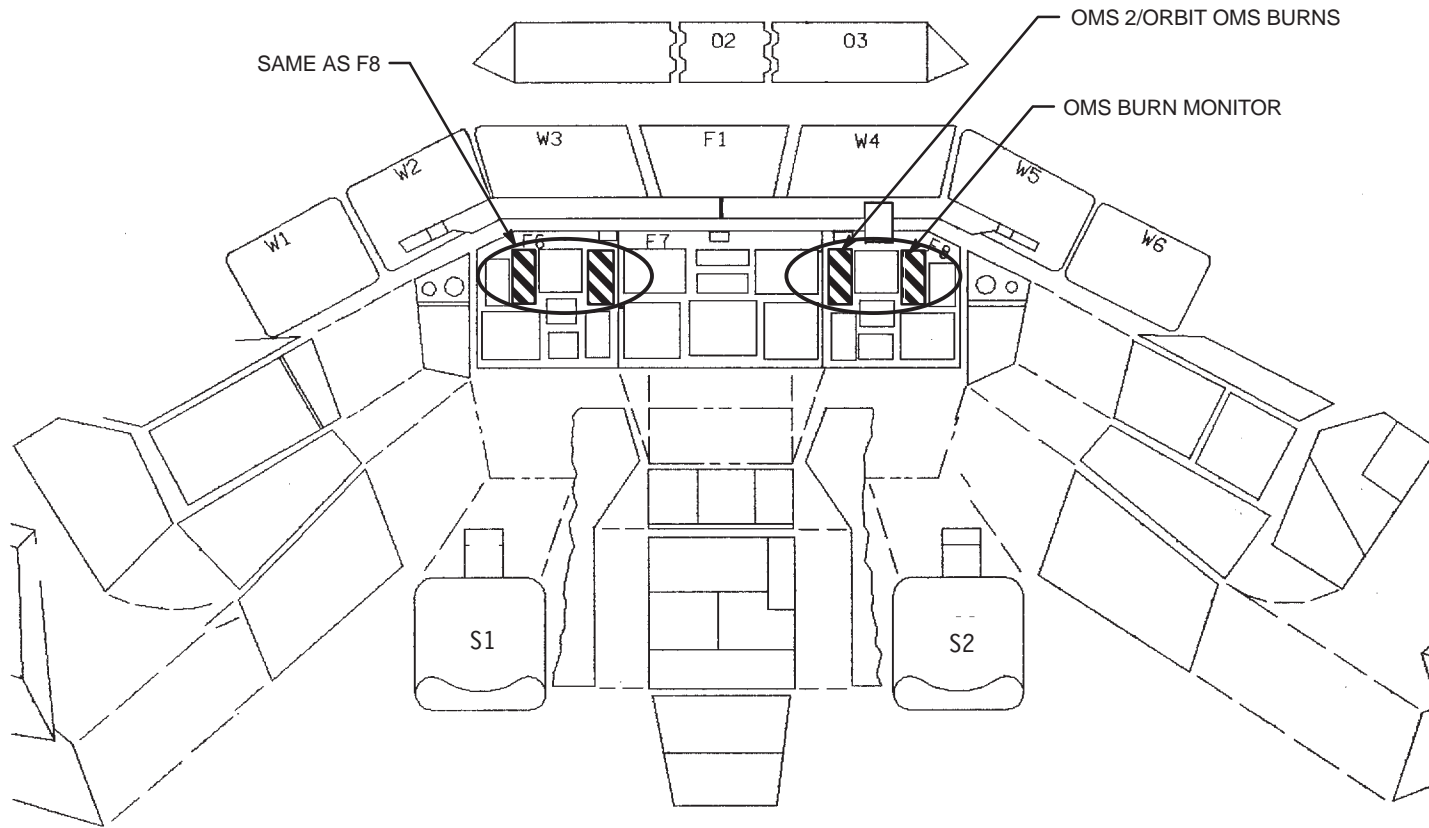
CONTINGENCY ABORT/ECAL/RTL5 CONT (TOP)
 RCS CRITICAL ENTRY/TRIM/OSC (TOP)
 ENTRY MNVRS (TOP)
 OMS 2/ORBIT OMS BURN/OPS 1 RCS BURN
 OMS BURN MONITOR/OMS FAILURES

CONTINGENCY ABORT/ECAL/RTL5 CONT (TOP)
 RCS CRITICAL ENTRY/TRIM/OSC (TOP)
 ENTRY MNVRS (TOP)
 OMS 2/ORBIT OMS BURN/OPS 1 RCS BURN
 OMS BURN MONITOR/OMS FAILURES

NOT SHOWN: ESCAPE PNL EGRESS (BACK OF CDR HEADREST)
 EMERGENCY EGRESS (BACK OF PLT,
 CDR SEATS AND ON MIDDECK FWD LOCKERS)
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 ASCENT/ABORT SUMMARY (BACK OF PLT SEAT)
 CONTINGENCY ABORT/ECAL/RTL5 CONT (BACK OF CDR/PLT SEATS)

qcmap2

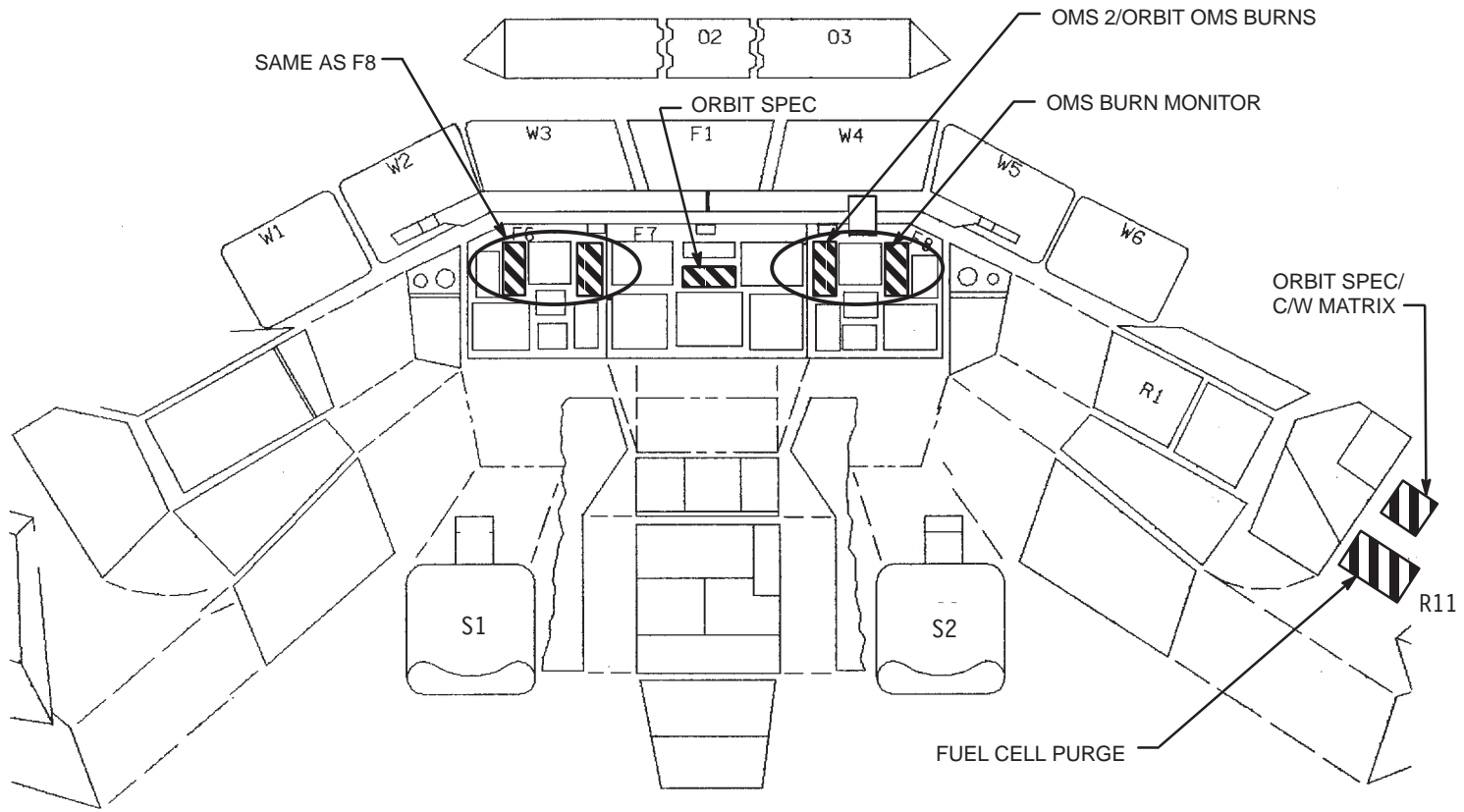
OMS 2 BURN



NOTE: "ASCENT" CARDS REMAIN IN PLACE

qcmap3

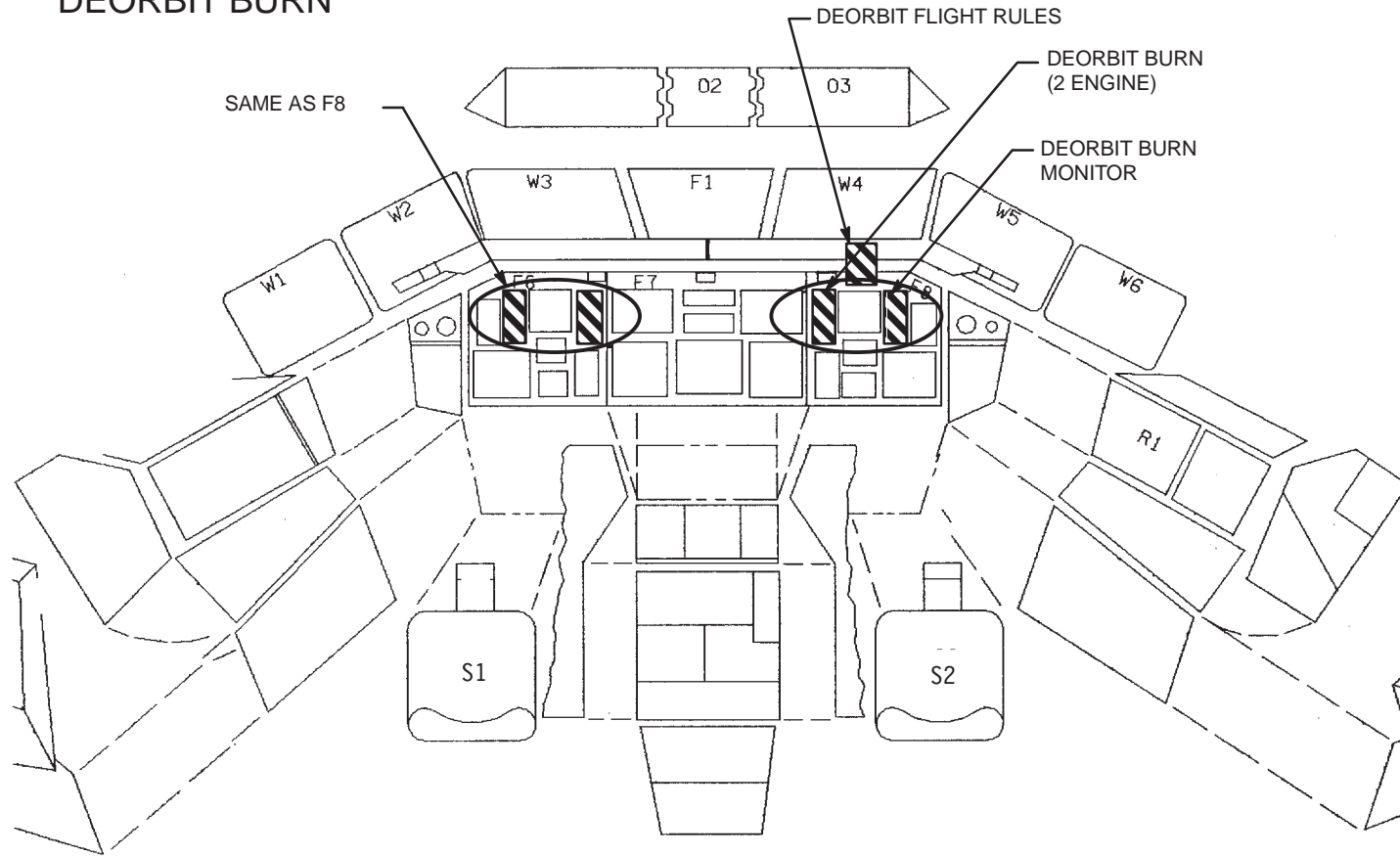
ORBIT



NOTE: "MULTIPHASE" CARDS REMAIN IN PLACE

qcm4

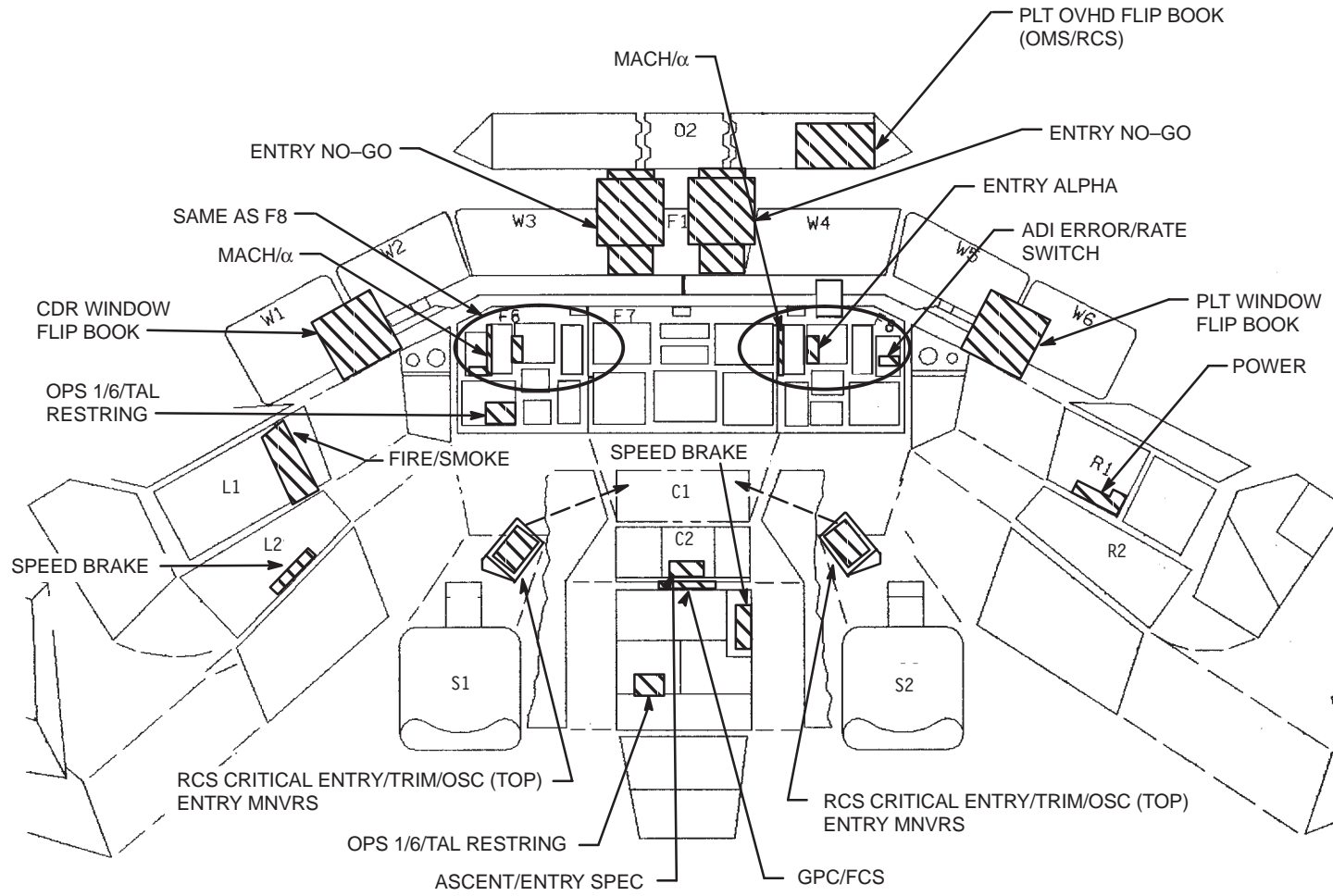
DEORBIT BURN



NOTE: "MULTIPHASE" CARDS REMAIN IN PLACE

qcmap5

ENTRY



NOT SHOWN: ESCAPE PNL EGRESS (BACK OF CDR HEADREST)
 EMERGENCY EGRESS (BACK OF PLT,
 CDR SEATS AND ON MIDDECK FWD LOCKERS)

qcmap6

MULTIPHASE CUE CARDS

Section Reserved

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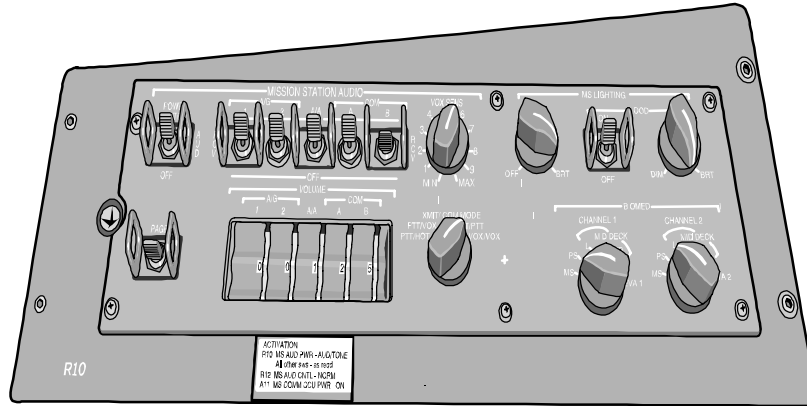
ORBITER PROCEDURAL DECALS

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FECAL BAG INSTALLATION	3-15

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**COMM PANEL ACTIVATION
O5, O9, L9, R10, AND AW18D**



S81-25046

R10 ACTIVATION DECAL LOCATION

(all others similar)

ACTIVATION

- O5 All switches – as reqd**
- L5 L COMM PWR – as reqd**

O5 ACTIVATION DECAL

(Left (CDR) Audio Station)

ACTIVATION

- O9 R AUD PWR – AUD/TONE**
- All other sws – as reqd**
- R6 R COMM PWR – as reqd**

O9 ACTIVATION DECAL

(Right (PLT) Audio Station)

ACTIVATION

- L9 All switches – as reqd**
- A15 PS COMM CCU PWR – ON**

L9 ACTIVATION DECAL

(PS Audio Station)

ACTIVATION

- R10 MS AUD PWR – AUD/TONE**
- All other sws – as reqd**
- R12 MS AUD CNTL – NORM**
- A11 MS COMM CCU PWR – ON**

R10 ACTIVATION DECAL

(MS Audio Station)

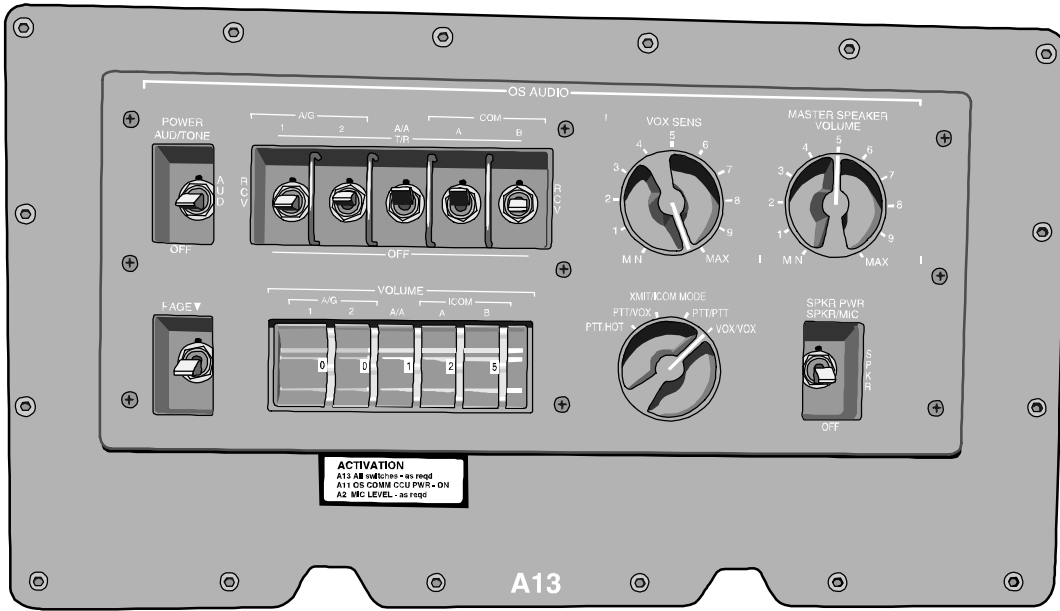
ACTIVATION

- AW18D All switches – as reqd**
- AW82D CCU 1, 2 PWR – as reqd**

AW18D ACTIVATION DECAL

(Airlock Audio Station)

**COMM PANEL ACTIVATION
A13, MO42F, AND MO58F**



S81-25033

A13 ACTIVATION DECAL LOCATION

(all others similar)

ACTIVATION
A13 All switches – as reqd
A11 OS COMM CCU PWR – ON
A2 MIC LEVEL – as reqd

A13 ACTIVATION DECAL

(Orbit Audio Station)

ACTIVATION
MO42F All switches – as reqd
MO29J MIC LEVEL – as reqd

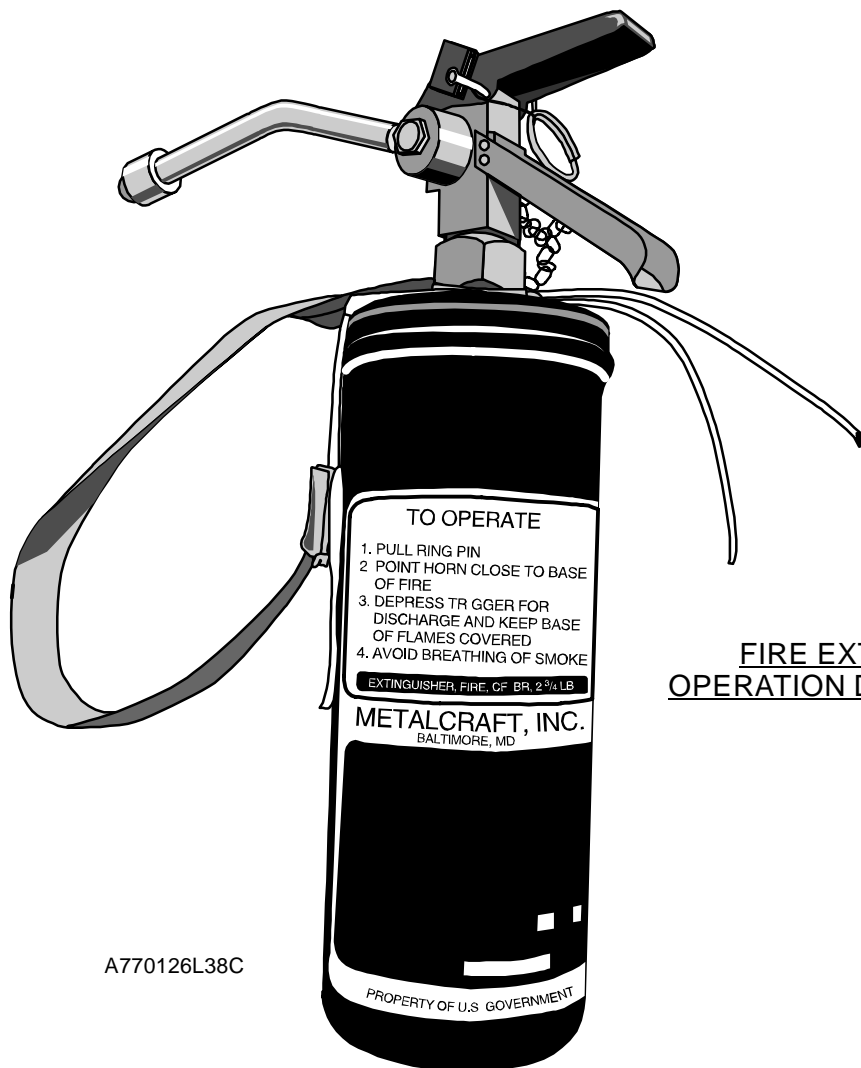
MO42F ACTIVATION DECAL
 (Middeck Speaker Audio Station)

ACTIVATION
MO58F All switches – as reqd
MO39M MID DECK COMM CCU PWR – ON

MO58F ACTIVATION DECAL
 (Middeck CCU Audio Station)

CUE-D2/A,O,E/B

FIRE EXTINGUISHER



A770126L38C

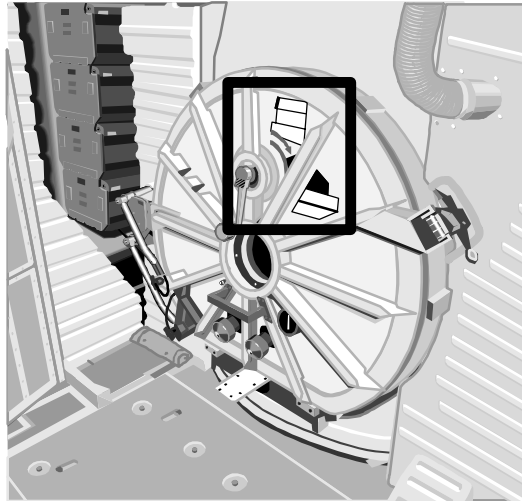
FIRE EXTINGUISHER OPERATION DECAL LOCATION

FIRE EXTINGUISHER OPERATION DECAL

<p>TO OPERATE</p> <ol style="list-style-type: none">1 PULL RING PIN2 POINT HORN CLOSE TO BASE OF FIRE3 DEPRESS TRIGGER FOR DISCHARGE AND KEEP BASE OF FLAMES COVERED.4 AVOID BREATHING OF SMOKE <p>EXTINGUISHER, FIRE, CF₃ Br, 2 3/4 LB</p>

CUE-D3/A,O,E/B

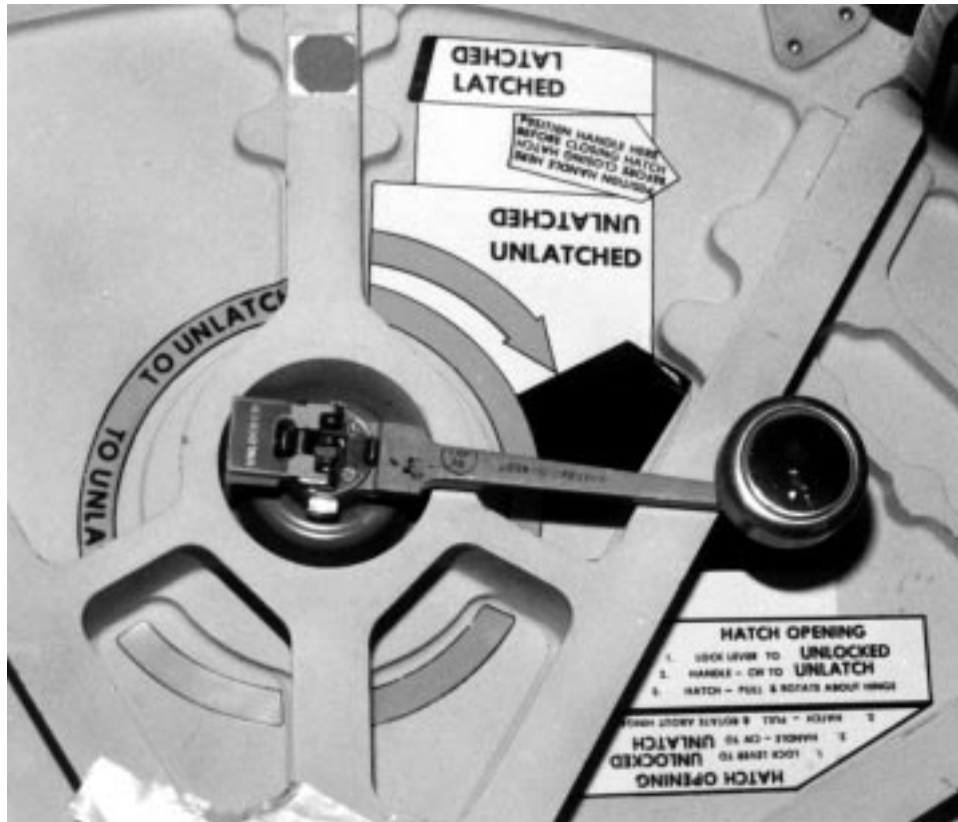
INNER/OUTER/EVA/SPACELAB HATCH OPENING/CLOSING
(CREWMODULE SIDE)



S-80-28025

INNER HATCH

(Outer/EVA/Spacelab Hatches Similar)



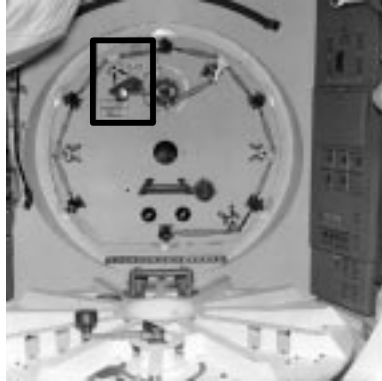
S85-32566

INNER/OUTER/EVA/SPACELAB HATCH OPENING/CLOSING DECALS

(Crewmodule Side)

CUE-D4/O/B

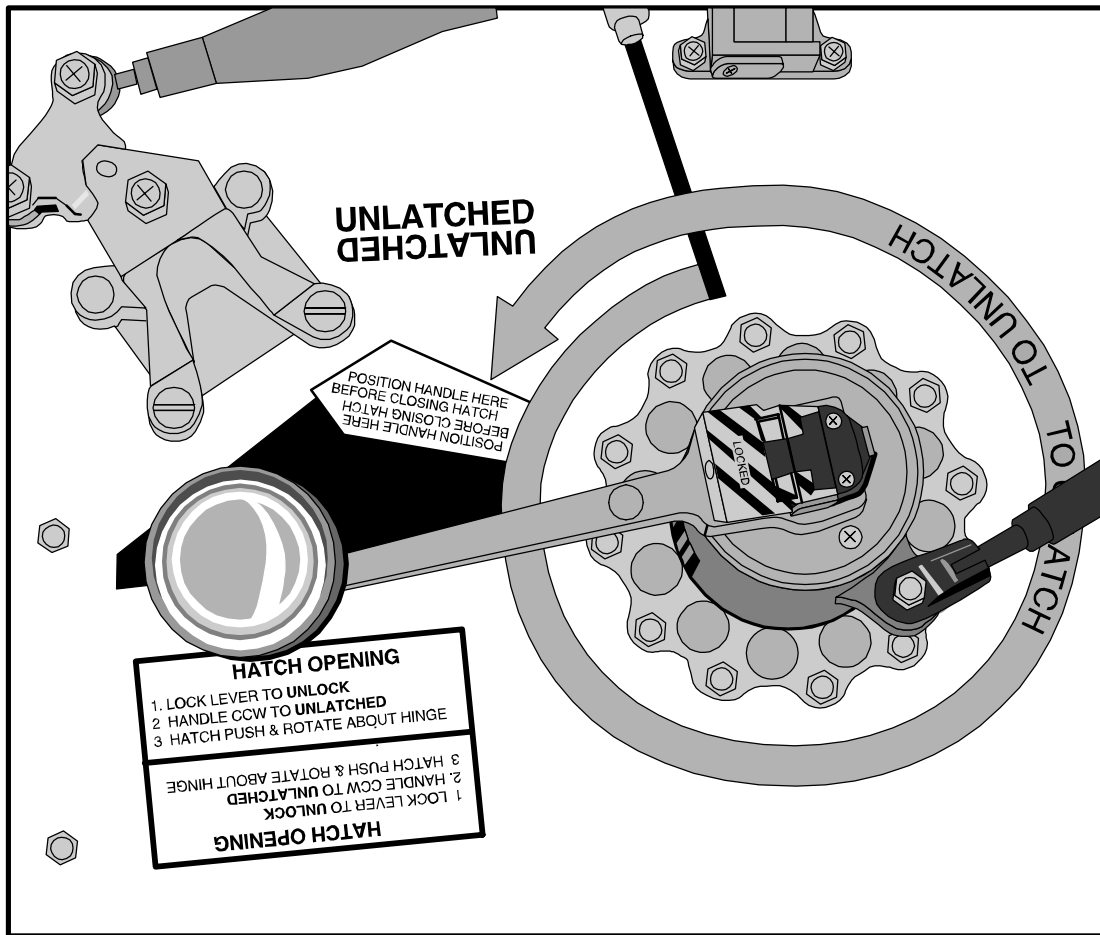
INNER/OUTER/EVA/SPACELAB HATCH OPENING/CLOSING
(PAYLOAD BAY/SPACELAB SIDE)



S-80-28038

INNER HATCH

(Outer/EVA/Spacelab Hatches Similar)



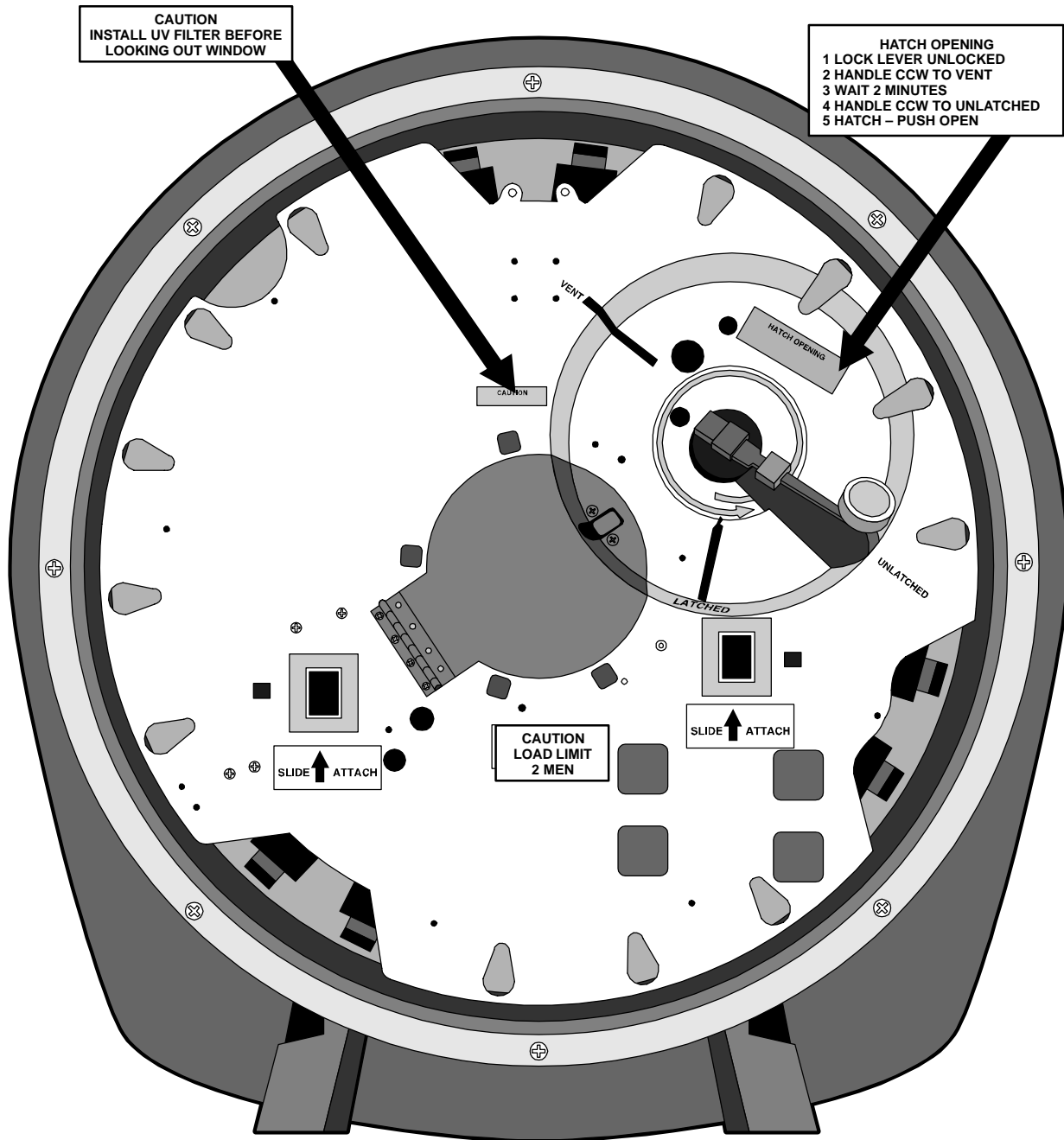
S85-32264

INNER/OUTER/EVA/SPACELAB HATCH OPENING/CLOSING DECALS

(Payload Bay/Spacelab Side)

CUE-D5/O/B

SIDE HATCH

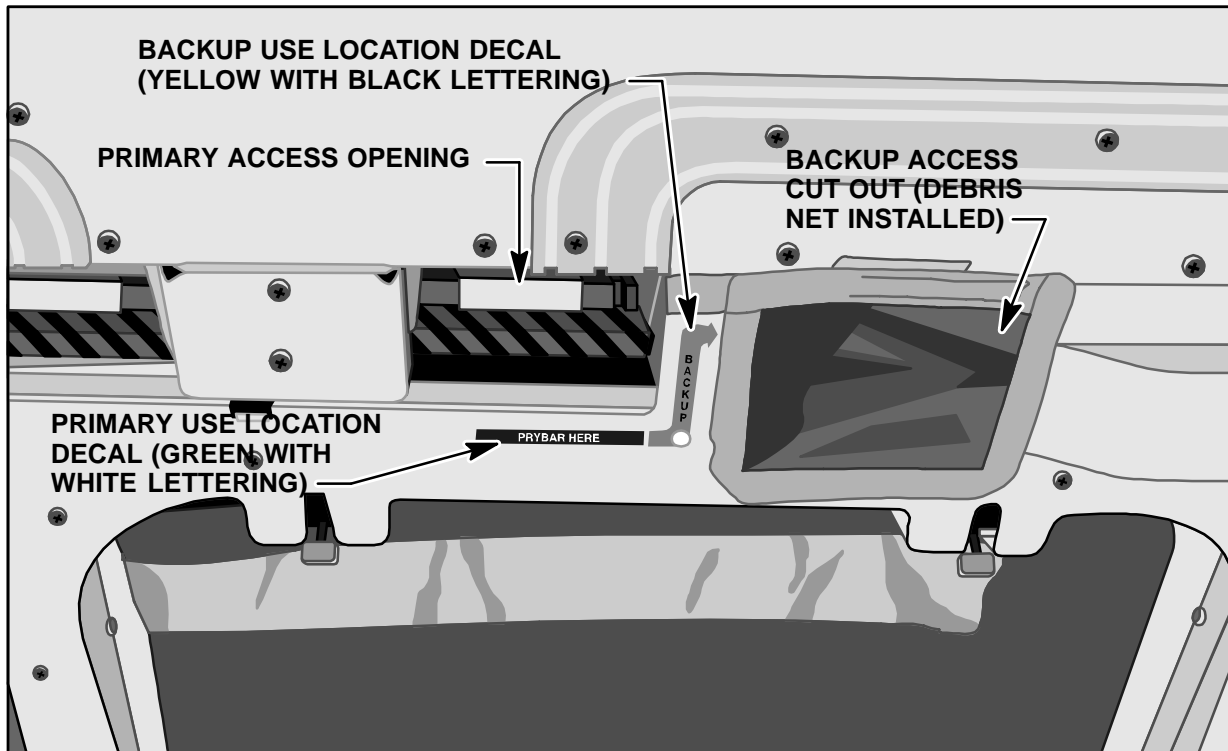


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SIDE HATCH OPENING DECALS

CUE-D6/A,E/B

EMERGENCY EGRESS PRYBAR

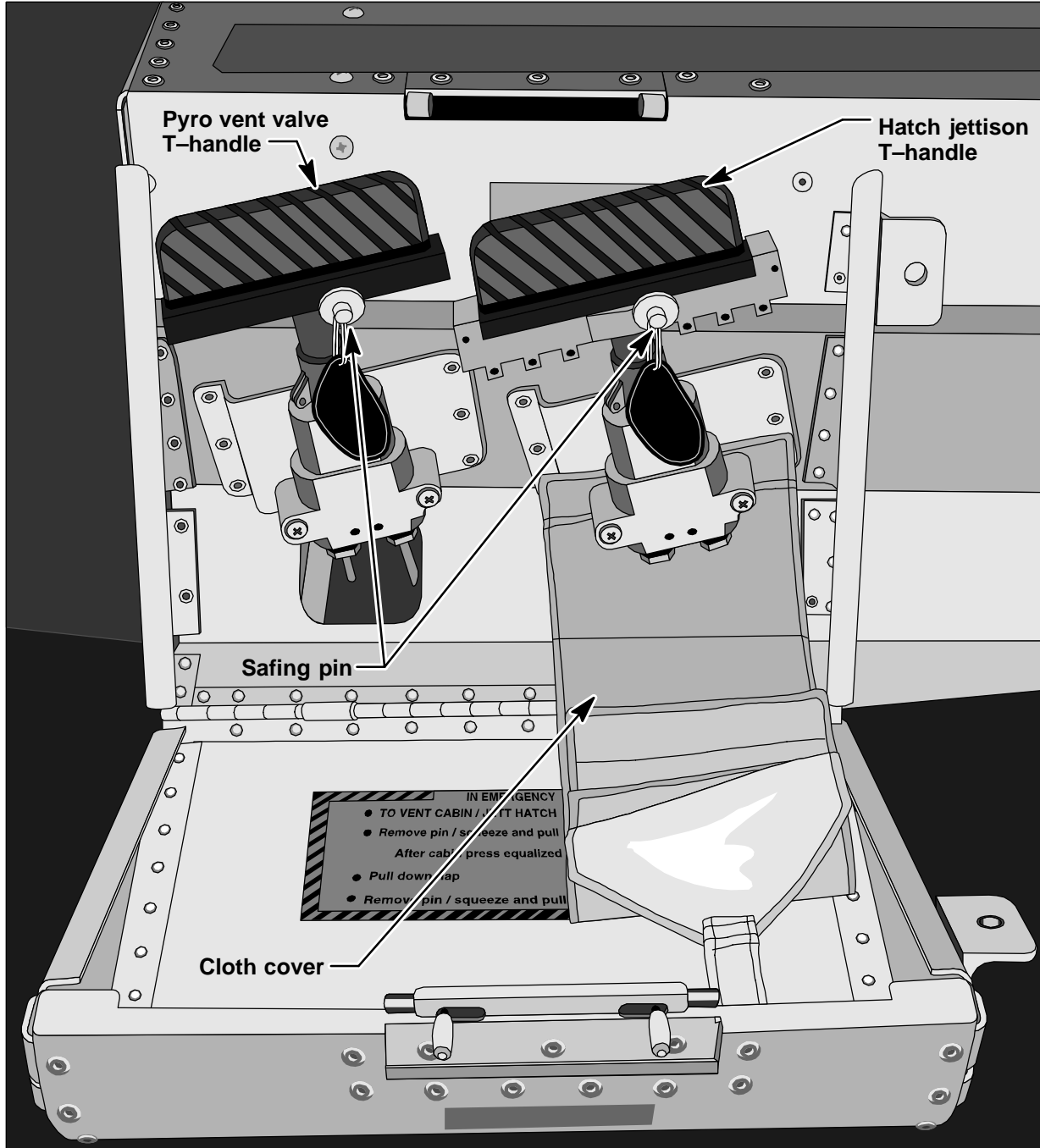


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EMERGENCY EGRESS PRYBAR USE DECALS

CUE-D7/E/A

CABIN VENT/HATCH JETT INSTRUCTIONS



i_48013_60_5_13

CUE-D8/A,E/C

DECAL ON OUTSIDE OF "T" HANDLE COVER DOOR:

- **BEFORE LAUNCH/ENTRY**
 - REMOVE DOOR PIN
- **POST LAUNCH/LANDING**
 - INSTALL DOOR PIN

DECAL ADJACENT TO DOOR LATCHES:



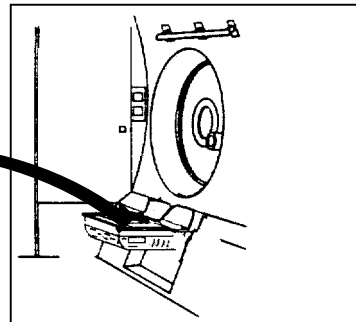
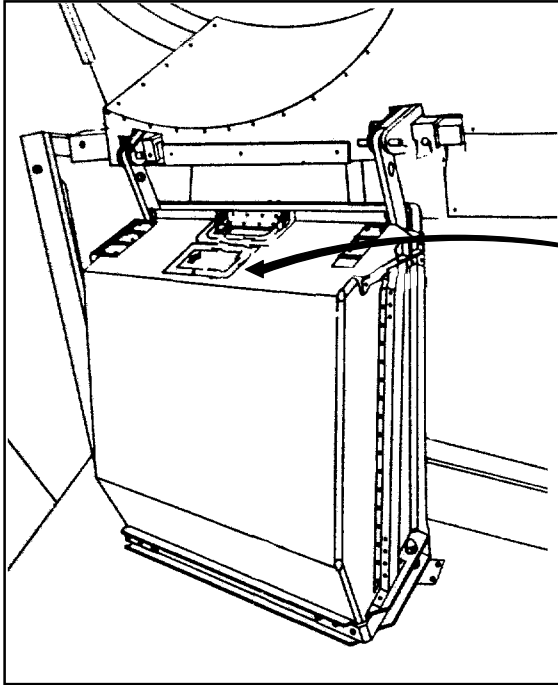
yellow background
black letters

DECAL ON INSIDE OF DOOR:

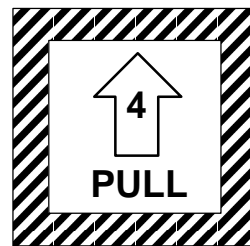
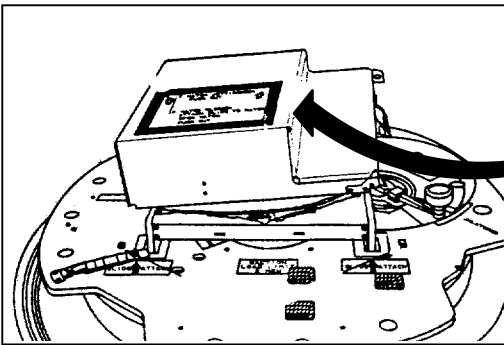
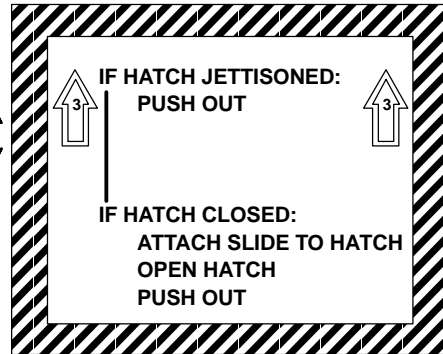
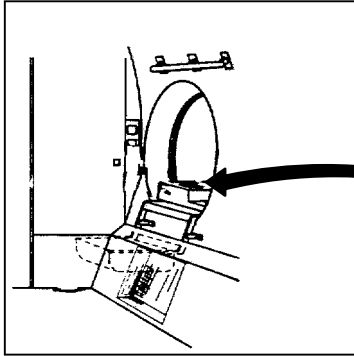
IN EMERGENCY

- **TO VENT CABIN/JETT HATCH**
 - REMOVE PIN/SQUEEZE AND PULL VENT HANDLE
- AFTER CABIN PRESS EQUALIZED:**
 - PULL DOWN FLAP
 - REMOVE PIN/SQUEEZE AND PULL JETT HANDLE

EMERGENCY EGRESS SLIDE

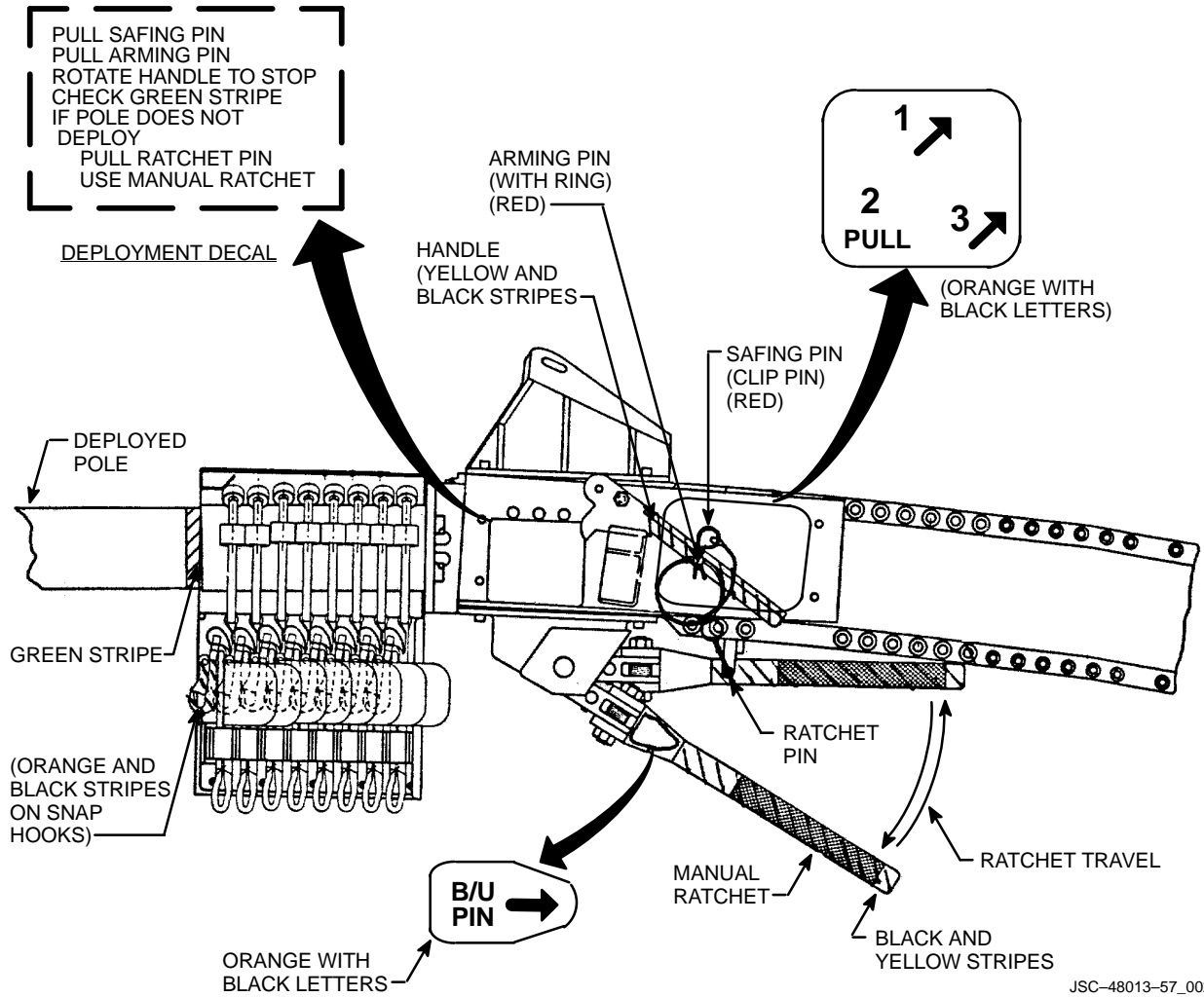


CUE-D9/A,E/C



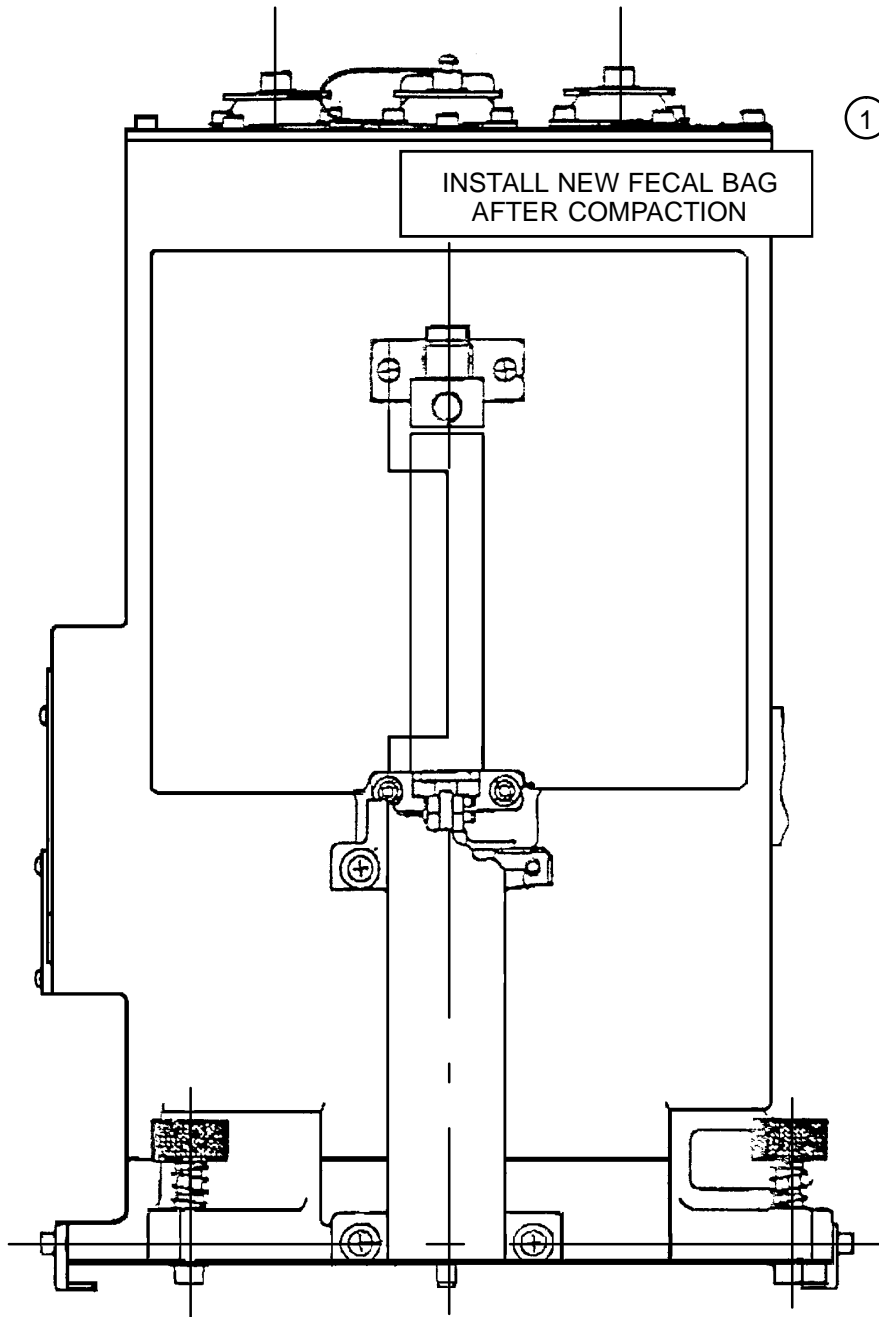
**PACKED VALISE HANGING OFF SIDE HATCH
PRIOR TO SLIDE DEPLOYMENT**

ESCAPE POLE DEPLOYMENT



CUE-D10/E/C

FECAL BAG INSTALLATION



- ① Label – 3M Dynamark, Black on Yellow $1.0" \pm 0.1"$ x $4.25" \pm 0.1"$
Position Approx. – Vertically Centered
– "N" in Compaction Aligned with Recess in Compactor

JSC-48013-57_001

CUE-D11/A,E/A

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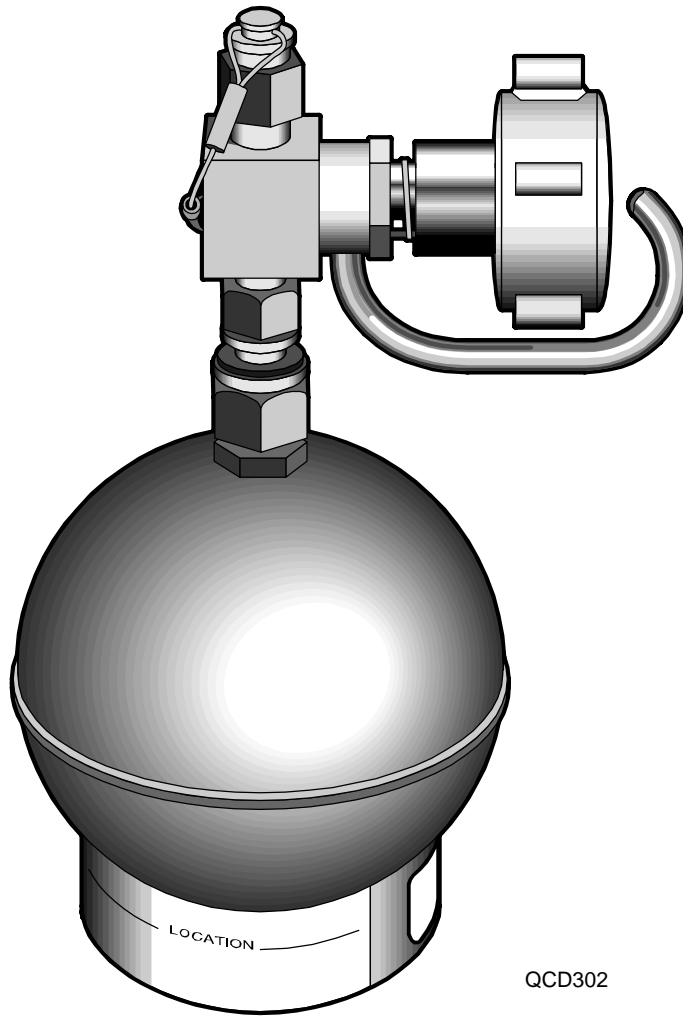
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LOOSE EQUIPMENT PROCEDURAL DECALS

AIR SAMPLE BOTTLE	4-3
GYRO STABILIZED BINOCULARS	4-4
WCCS WALL UNITS	4-5
WORN UNITS	4-6
PGSC	4-7

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AIR SAMPLE BOTTLE



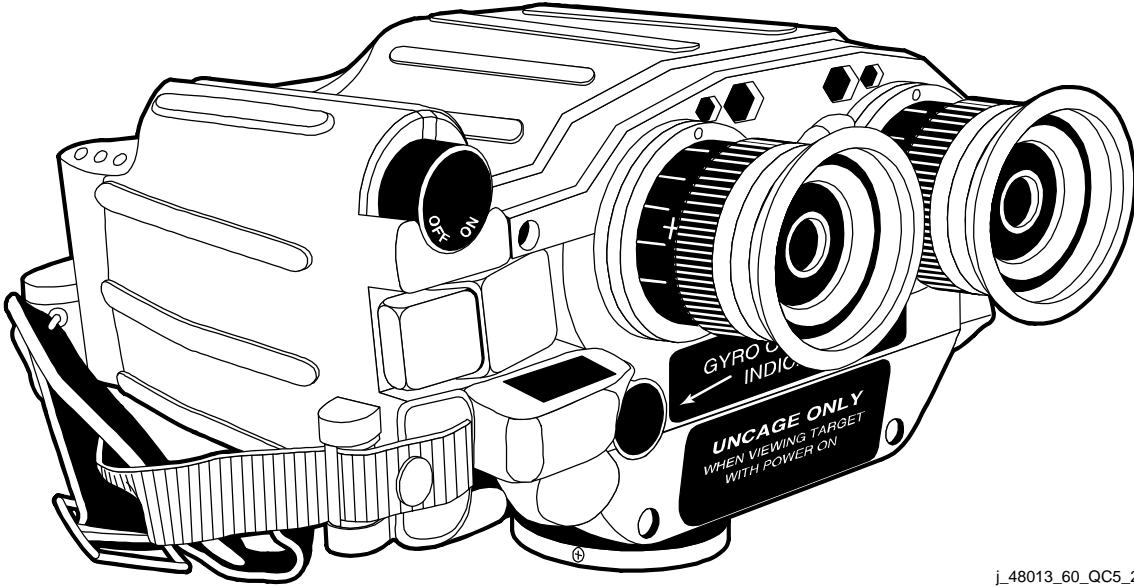
AIR SAMPLE BOTTLE
DECAL LOCATION

MET: _____ \ _____ : _____			LOCATION _____		
- Procedure					
1. Record sampling data	3. Open valve 1 turn for 10 sec	5. Replace dustcap			
2. Unscrew dustcap	4. Close valve until it slips and locks	6. Restow			

AIR SAMPLE BOTTLE DECAL

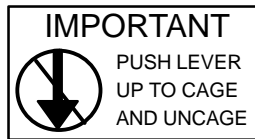
CUE-D12/O/B

GYRO STABILIZED BINOCULARS



j_48013_60_QC5_2

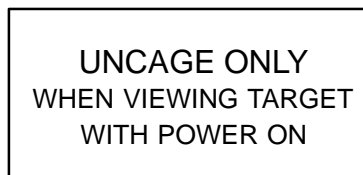
**GYRO STABILIZED BINOCULARS
DECAL LOCATIONS**



CAGE/UNCAGE INSTRUCTIONS DECAL
(Top of Cage/Uncage lever)



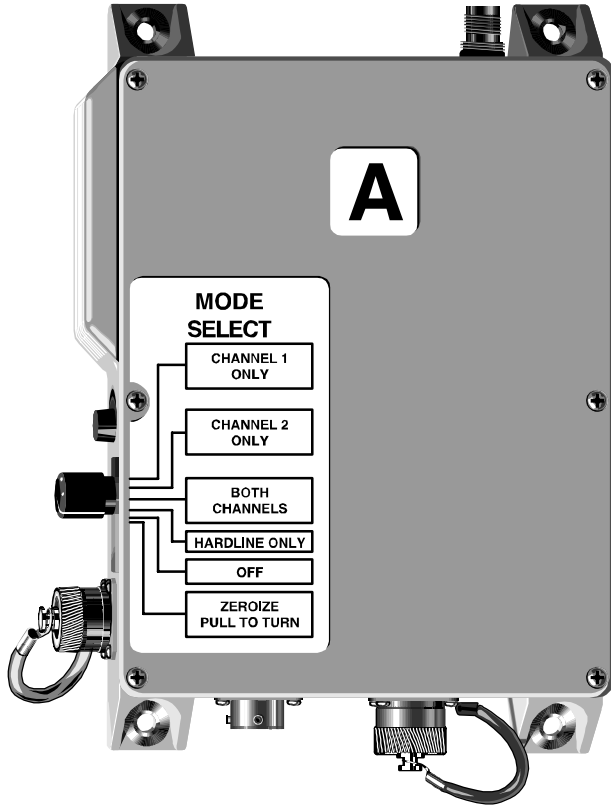
CAGE INDICATOR DECAL
(Below Eyepieces)



UNCAGE CAUTION DECAL
(Below Eyepieces)

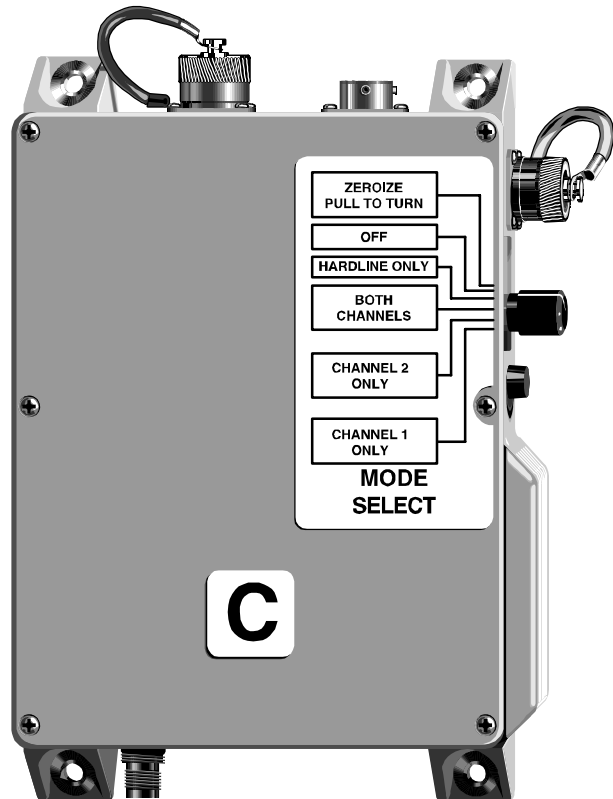
CUE-D13/O/A

WCCS WALL UNITS



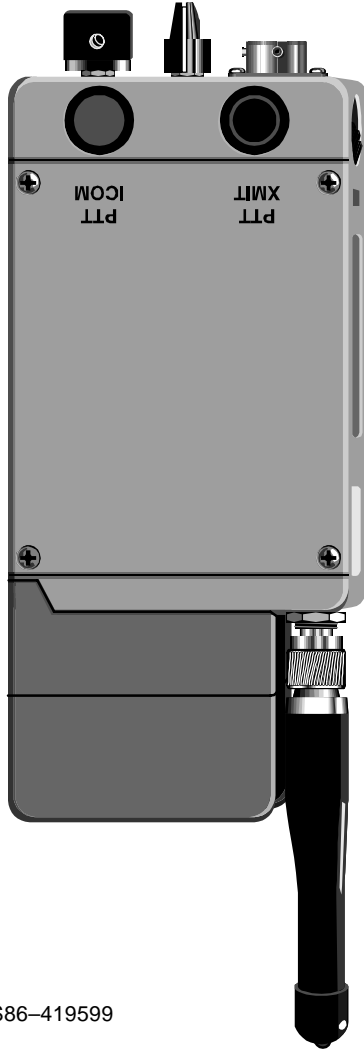
WCCS WALL UNIT A(B,D)
(LOCATIONS L5, R6, A11, MO39M)

WCCS WALL UNIT C (LOCATION A15)



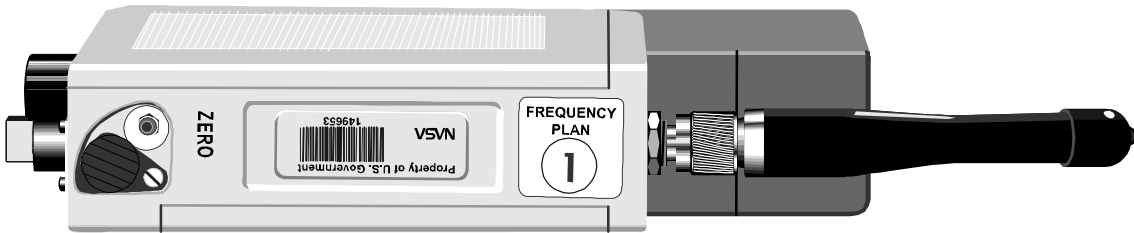
CUE-D14/O/C |

WCCS WORN UNITS



WCCS WORN UNIT

S86-419599



S86-419519

WCCS WORN UNIT FREQUENCY PLAN

CUE-D15/O/C |

PGSC

WHEN CYCLING POWER SWITCH
WAIT 5 SECONDS IN THE OFF
POSITION BEFORE TURNING ON

ENABLE BATTERY
BEFORE UNIT OPERATION

DO NOT BLOCK
AIR OUTLET

AIR INLET
DO NOT BLOCK

CHECK POWER SWITCH
OFF BEFORE
CONNECT/DISCONNECT

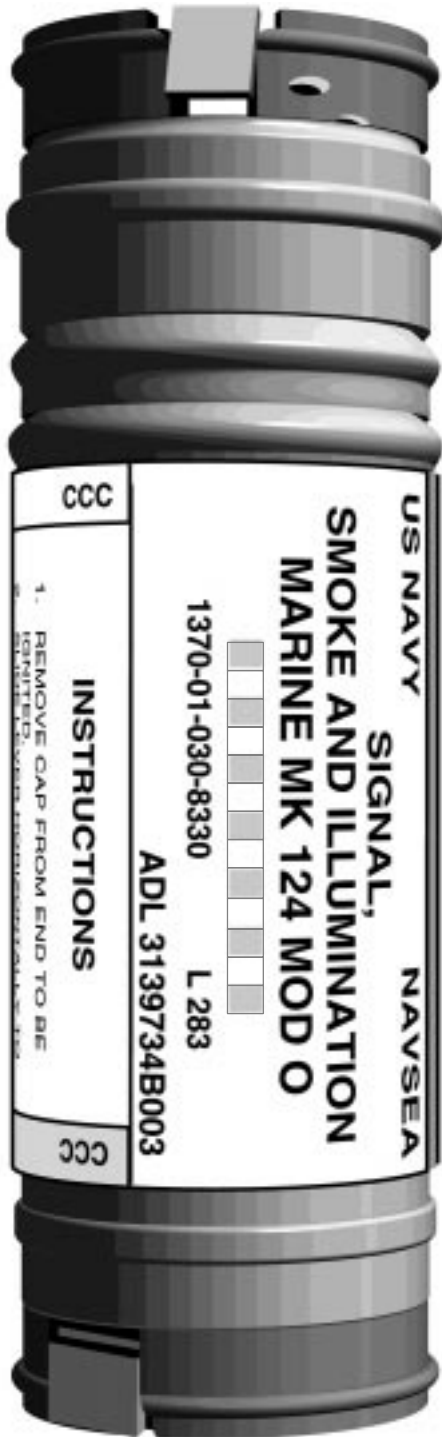
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SURVIVAL EQUIPMENT PROCEDURAL DECALS

MK 124 SMOKE AND ILLUMINATION SIGNAL OPERATION	5-3
MIRROR SIGNALING	5-4
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EMERGENCY DRINKING WATER	5-7
ILLUMINATION SIGNAL KIT	5-8
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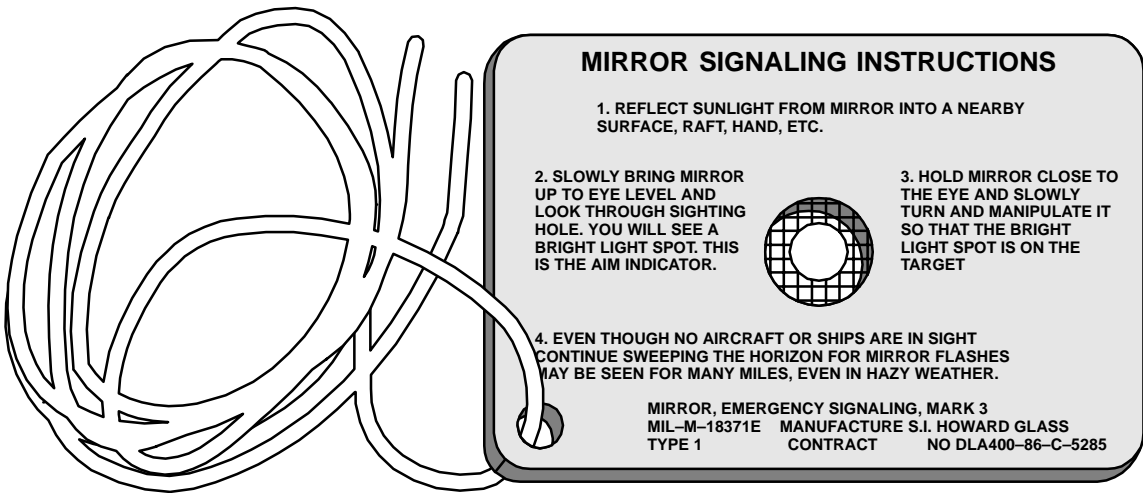
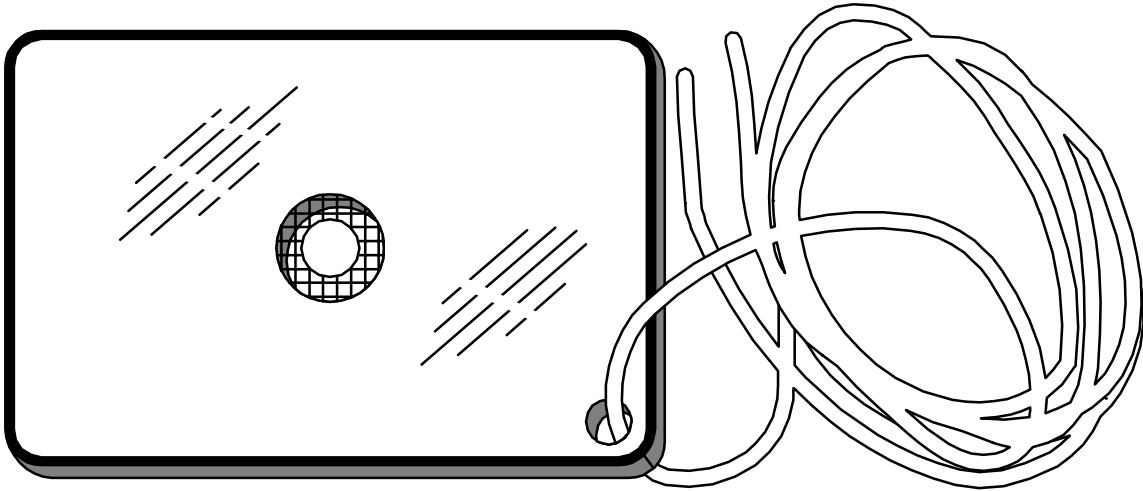
MK 124 SMOKE AND ILLUMINATION SIGNAL OPERATION



US NAVY NAVSEA SIGNAL, SMOKE AND ILLUMINATION MARINE MK 124 MOD 0  1370-01-030-8330 L 283 ADL 3139734B003		
CCC FLARE END - NIGHT USE CCC	INSTRUCTIONS <ol style="list-style-type: none"> 1. REMOVE CAP FROM END TO BE IGNITED. 2. SLIDE LEVER HORIZONTALLY TO FULLY EXTEND. 3. PULL LEVER DOWNWARD UNTIL FIRING PIN RELEASES. 4. IF SMOKE FLAMES, BRIEFLY IMMERSE IN WATER OR HOLD AGAINST SOLID OBJECT. 5. AFTER USING ONE END SAVE OTHER END FOR FUTURE USE. WARNING <ol style="list-style-type: none"> 1. DURING AND AFTER IGNITION, FULLY EXTEND ARM OVERHEAD AT 45° ANGLE AND DO NOT LOOK AT SIGNAL. 2. PRIOR TO PULLING LEVER DOWNWARD, POSITION ALL FINGERS BELOW TOP OF SIGNAL. 3. AFTER IGNITION HOLD SIGNAL AT 45° ANGLE. 	CCC SMOKE END - DAY USE CCC

CUE-D17/E/A

MIRROR SIGNALING



SIGNAL MIRROR DECAL LOCATION (On back of mirror)

CUE-D18/E/C

PRC-112 SURVIVAL RADIO OPERATION AND PROCEDURES

PRC-112 RADIO INSTRUCTIONS	
	<ul style="list-style-type: none"> ● EXTEND SARSAT TELESCOPING ANTENNA, THEN DISCONNECT WIRE ANTENNA ● CONTINUE SARSAT BEACONING ● TURN ON PRC-112 AND MONITOR 282.8 (VOICE) ● STANDBY FOR RADIO CONTACT WITH SAR FORCES ● FOLLOW INSTRUCTIONS FROM SAR FORCES ● RETURN TO 282.8 IF CONTACT WITH SAR FORCES LOST ● VERIFY SARSAT BEACON TONES WITH PRC-112 BY MOMENTARILY LISTENING TO 243.0 (VOICE) AND 121.5 (VOICE)
ADDITIONAL INFORMATION	
121.5 BCN	INTERNATIONAL EMERGENCY FREQUENCY (VHF/BEACON)
121.5	INTERNATIONAL EMERGENCY FREQUENCY (VHF/VOICE)
243.0 BCN	MILITARY EMERGENCY FREQUENCY (UHF/BEACON)
243.0	MILITARY EMERGENCY FREQUENCY (UHF/VOICE) DME
282.8	PRIMARY SAR OPERATIONS FREQUENCY (UHF/VOICE) DME
A.	SECONDARY SAR OPERATIONS (259.7) FREQUENCY (SHUTTLE A/G) (UHF/VOICE) DME
B.	BACKUP SAR OPERATIONS (236.0) FREQUENCY (UHF/VOICE) DME

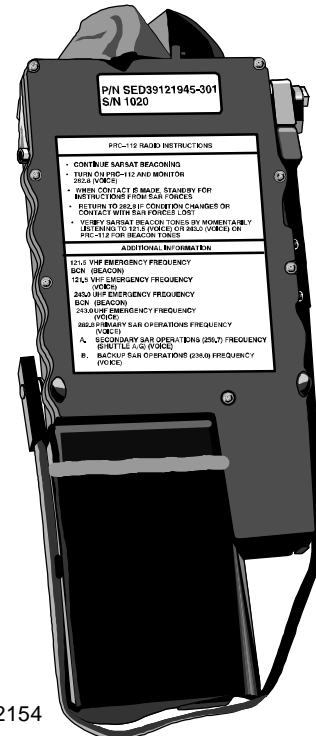
OPERATING INSTRUCTIONS

DECAL
(Back)



S92-452122

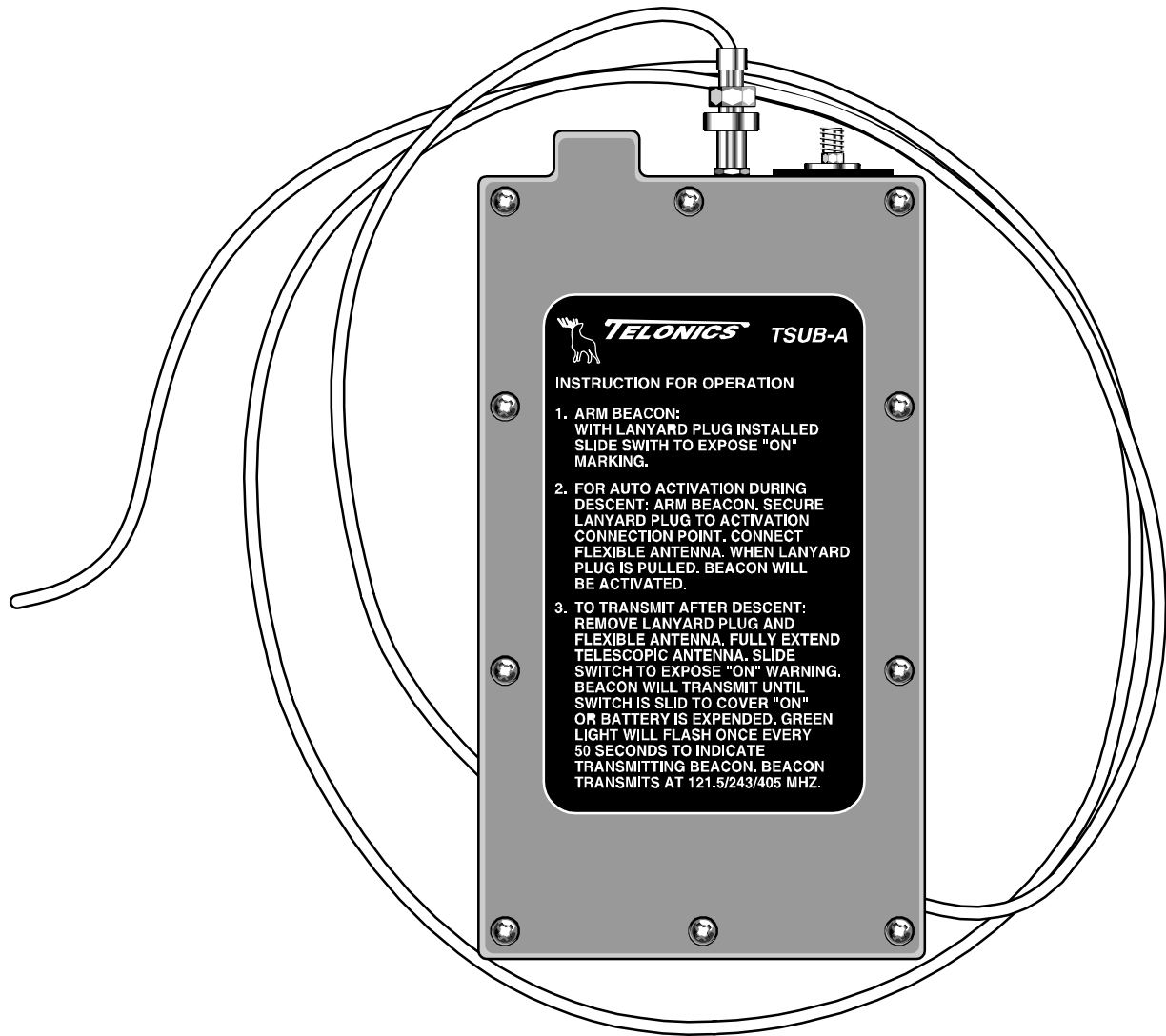
**PRC SURVIVAL RADIO
(Front)**



S92-452154

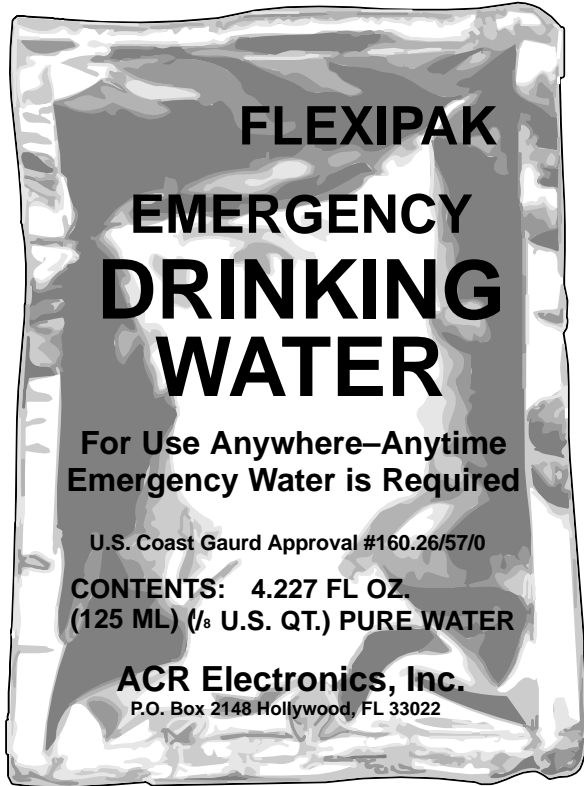
**PRC-112 SURVIVAL RADIO
(BACK W/PROCEDURAL
DECAL)**

CUE-D19/E/E



CUE-D20/E/D

EMERGENCY DRINKING WATER



EMERGENCY WATER CONTAINER

(Front)

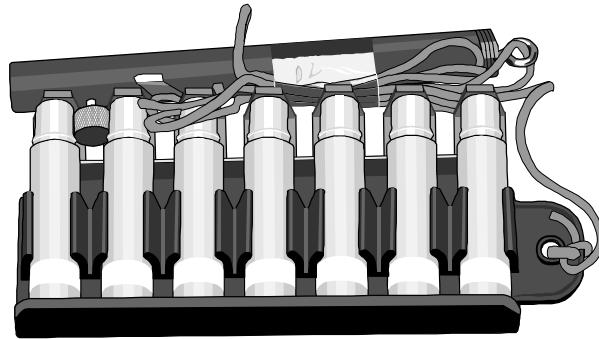


CONTAINER INSTRUCTIONS

(Back)

CUE-D21/E/C

ILLUMINATION SIGNAL KIT



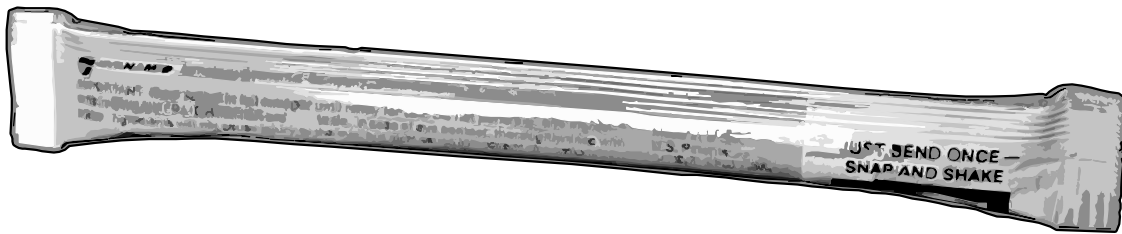
S88-37773

OPERATING INSTRUCTIONS

1. Pull trigger screw into angular (safety) slot.
2. Bend protective tab away from signal in bandoleer to allow attachment of projector.
3. Mate projector with signal and rotate to right until signal is seated.
4. Hold projector, arm fully extended, overhead.
5. Grip projector firmly. With snapping thumb action, pull trigger from safety slot and release into firing slot.
6. If signal misfires, at least one more attempt should be made to fire it.
7. Unscrew misfired or spent signal.

CUE-D22/E/B

LIGHTSTICK



IMPORTANT: Keep sealed in foil wrapper until ready for use. Do not puncture. The ingredients in CYALUME[®] LIGHTSTICK are non-toxic. In case of eye contact, thoroughly rinse with water. Ingredients will not cause injury to the eye, but may cause temporary discomfort.

SEA DYE MARKER



S88-37771

CUE-D24/E/B